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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,413	04/22/2005	Matthias Franz	10191/3944	1660
26646 7590 KENYON & KENYON LLP ONE BROADWAY			EXAMINER	
			TUCKER, WESLEY J	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/532,413 FRANZ, MATTHIAS Office Action Summary Examiner Art Unit 2624 WESLEY TUCKER -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 12-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 12-33 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) ____ are subject to restriction and/or election requirement. Application Papers The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 22 April 2005 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other

5) Notice of Informal Patent Application

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 12th 2009 has been entered.

Response to Amendment

- Applicant's amendment filed January 12th 2009 has been entered and made of record.
- Applicant has amended claims 12, 17, 20 and 25. Claims 1-11 have been cancelled. Claims 12-33 are pending.
- Applicant's remarks have been considered in view of the newly presented amendments, but are not found persuasive for at least the following reasons:

With regard to Applicant's remarks, Examiner finds that the reference to Seta still reads on the claims as recited. In an attempt to overcome the prior art, Applicant has added the feature of: "ignoring a measured value from the at least on of the image sensors." It is unclear how ignoring a measured value helps to define the invention.

Why is the value measured at all if it is to be ignored? By simply measuring the value.

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isn't the value of interest in some way and not truly being ignored? Further how can one image sensor be adjusted according to the measured data of the other image sensor without using (ignoring) the measured data of the one image sensor? If the adjusted parameter is gain, offset or integration time (claim 14), isn't there an initial gain, offset, or integration time that exists in accordance with the measured value that would have to be adjusted? Furthermore how is the error in the one image sensor determined if not by some measured value and how is that value ignored? Applicant's specification on page 4 discusses the ignoring portion, however the terms measured value and parameter are both seemingly replaced with the term lighting. What does Applicant intend the rather broad terms measured value and parameter to mean?

The reference to Seta is directed to the exact same endeavor. Seta discloses a vehicle with two cameras and adjusts the gain of the cameras when the lighting is found to be too different between the acquired respective images (in error).

With regard to Seta, the reference is interpreted to ignore a measured value of average brightness, because when the gain parameter is adjusted as a function of the other measured luminance, the average brightness whose gain is adjusted has the brightness replaced by gain adjusted brightness. The rejection in view of Seta is therefore maintained.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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5. Claims 12-16 are rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. While the claims recite a series of steps or acts to be performed, a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing (Reference the May 15, 2008 memorandum issued by Deputy Commissioner for Patent Examining Policy, John J. Love, titled "Clarification of 'Processes' under 35 U.S.C. 101" – publicly available at USPTO.GOV, "memorandum to examining corp."). The instant claims neither transform underlying subject matter nor positively tie to another statutory category that accomplishes the claimed method steps, and therefore do not qualify as a statutory process. In order for a process to be "tied" to another statutory category, the structure of another statutory category should be positively recited in a step or steps significant to the basic inventive concept, and NOT just in association with statements of intended use or purpose, insignificant pre or post solution activity, or implicitly.

Claim 12 recites a method, but is not adequately tied to another statutory category. Claims 12 should be amended to include performing steps with a processor for example, or producing an enhanced image as a tangible result.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

 Claims 12-33 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,987,534 to Seta.

With regard to claim 12, Seta discloses a method for adjusting at least one parameter of at least one image sensor of an image sensor system, the image sensor system including at least two image sensors which record essentially the same scene (Fig. 1, elements 1 and 2, Seta discloses a main camera and a sub camera that image the same scene for stereo imaging), the method comprising:

when at least one error of at least one error type occurs in at least one of the image sensors, ignoring a measured value from at least one of the image sensors, adjusting at least one parameter of the at least one image sensor as a function of at least one other measured value of at least one other of the image sensor of the image sensor system, wherein the measured value is of the same type as the other measured value (column 5, lines 6-15 and column 6, lines 1-64, Seta discloses a method for determining a difference in the brightness values of two different cameras represented by AVE1 and AVE2. AVE1 and AVE2 are interpreted as measured values. If the difference between the brightness values represented by SUM exceeds a threshold, the gain is adjusted to correct for the unacceptable difference.

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an error. Seta also discloses correcting brightness values of either of the cameras or image sensors by adjusting gain. Adjusting gain is interpreted as adjusting a parameter of the image sensor or camera. In view of Applicant's amendment, the adjustment of the gain parameter is interpreted as replacing the parameter, since the gain creates a new value thereby replacing the previous parameter value. The parameter is adjusted or according to the value of the other imaging sensor. When Seta determines an image sensor to be in error, it is corrected through use of the measured luminance and gain values of the other image sensor. The measured value of AVE1 is interpreted as being ignored when the gain is adjusted and AVE1 becomes something different).

The discussion of claim 12 likewise applies to each of independent claims 17, 20 and 25.

With regard to claim 13, Seta discloses the method according to claim 12, wherein the image sensor system is in a motor vehicle (column 2, lines 38-40).

With regard to claim 14, Seta discloses the method according to claim 12, wherein the at least one parameter is at least one lighting parameter, including at least one of a gain, an offset and an integration time (column 6, lines 9-24, Seta discloses adjusting gain when the difference in average brightness between the two images exceeds a threshold).

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With regard to claim 15, Seta discloses the method according to claim 12, wherein the at least one measured value is a measure of a lighting of at least one part of an image of the at least one further image sensor (column 5, lines 7-15, Seta discloses that the brightness which is interpreted as lighting is measured for each image and then compared).

With regard to claim 16, Seta discloses the method according to claim 12, wherein the at least one error type includes at least one of (a) at least one image error and (b) at least one hardware error (column 6, lines 9-25, Seta disclose that the error is determined if and when the average brightness difference between the two images exceeds a threshold. This is interpreted as an image error).

With regard to claim 17, the discussion of claim 12 applies. Seta discloses the method as claimed in claim 12 and further discloses performing the method using a device shown in Fig. 1.

With regard to claim 18, the discussion of claim 13 applies.

With regard to claim 19, the discussions of claims 14 and 15 apply. The processing unit is interpreted as the elements of Fig. 1, namely correction circuit 5, calculating section 13, and gain adjusters 3 and 14 as discussed.

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With regard to claim 20, Seta discloses a processing unit for generating at least one adjustment signal for at least one parameter of at least one image sensor of an image sensor system (Fig. 1, the processing unit is interpreted as the elements of Fig. 1 as a whole but specifically the following components perform the operation as claimed: correction circuit 5, calculating section 13, and gain adjusters 3 and 14 as discussed), the processing unit comprising:

an arrangement for receiving at least two different images which represent essentially the same scene (Fig. 1, elements 1 and 2, Seta discloses a main camera and a sub camera that image the same scene fro stereo imaging; and

an arrangement for monitoring an occurrence of at least one error of at least one error type in at least one image sensor of the image sensor system and, in the event of an occurrence of at least one error in the at least one image sensor of the image sensor system, for generating at least one adjustment signal for at least one parameter of the at least one image sensor, as a function of at least one measured value of at least one further image sensor of the image sensor system, wherein the generating includes ignoring a corresponding measured value of the at least one image sensor of the same type as the measured value. (column 5, lines 6-15 and column 6, lines 1-64. Seta discloses a method for determining a difference in the brightness values of two different cameras represented by AVE1 and AVE2. If the difference between the brightness values represented by SUM exceeds a threshold, the

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gain is adjusted to correct for the unacceptable difference. When the difference in the brightness values exceeds a threshold this is interpreted as an error. Seta also discloses correcting brightness values of either of the cameras or image sensors by adjusting gain. Adjusting gain is interpreted as adjusting a parameter of the image sensor or camera. The processing unit depicted in Figure 1 is arranged to perform the discussed operations. In view of Applicant's amendment, the adjustment of the gain parameter is interpreted as replacing the parameter, since the gain creates a new value thereby replacing the previous parameter value. The parameter is adjusted or replaced according to the value of the other imaging sensor. When Seta determines an image sensor to be in error, it is corrected through use of the measured luminance and gain values of the other image sensor).

With regard to claims 21- 24, the discussions of claims 13-16 apply respectively.

With regard to claim 25, the discussion of claims 12 and 20 apply. Seta discloses a computer program for executing the method discussed in the apparatus of Fig. 1 (column 5, lines 5-10 and 18-20). The steps of the program are shown in Figs. 2, 3 and 7.

With regard to claim 26, the discussion of claim 13 applies.

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With regard to claim 27, Seta discloses the computer program according to claim 25, wherein the replacement value is based on an original signal from the at least one other image sensor (column 5, lines 6-15 and column 6, lines 1-64, Seta discloses adjusting a parameter thus replacement the old parameter with the new adjusted parameter based on image data fro the other image sensor).

With regard to claim 28, the discussion of claim 27 applies.

With regard to claim 29, the discussions of claims 14 and 15 apply.

With regard to claim 30, the discussion of claim 16 applies.

With regard to claim 31, the discussion of claim 18 applies.

With regard to claim 32, the discussion of claim 27 applies.

With regard to claim 33, the discussion of claim 27 applies.

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Contact Information

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to WESLEY TUCKER whose telephone number is (571)272-7427. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wes Tucker/ Examiner, Art Unit 2624